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Notice of Allowability	Application No.	Applicant(s)	
	10/629,504	PAK, YONG KIL	
	Examiner	Art Unit	
	Victor K. Hwang	3764	

-- **The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**
 All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application as filed July 29, 2003.
2. ☒ The allowed claim(s) is/are 5-8.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

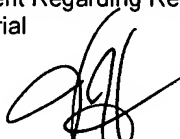
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

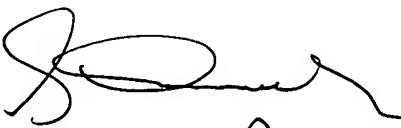
4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☒ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☒ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|--|
| 1. <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____. |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____. |


Victor K. Hwang
Patent Examiner


 Primary

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. The amendments correct typographical and grammatical errors.

2. The application has been amended as follows:

In the Specification:

- A) Page 4, line 7, replace "lightning" with --lighting--.
- B) Page 5, line 9, replace "lightning" with --lighting--.
- C) Page 5, line 14, replace "(2)" with --(3)--.
- D) Page 5, line 14, delete "(13)".
- E) Page 5, line 15, replace "(5)" with --(15)--.
- F) Page 5, line 24, replace "trough" with --through--.

In the Claims:

- A) Cancel claims 1-4.
- B) Insert the following new claims 5-8.
 - 5. (New) An electrically blinking jump rope comprising:
 - 1) a flexible tube of partial light transmitting material;
 - 2) two jump rope handles which have a cavity for receiving two batteries, a metal spring and a metal ribbon, one end of which forms a circle along a mouth of the

handle to maintain a connection with a (-) electric circuit embedded in jump rope handle caps;

3) two jump rope handle caps, wherein both are comprised of a (-) electric circuit metal ring, a male screw bolt for (+) circuits and are engaged to the jump rope handles by a screw;

4) two electric connectors, wherein one of which is equipped with an on/off switch and each has an electric circuit board, one metal terminal for (+) circuit and another metal terminal for (-) electric circuit, and each of which are pivotally connected to a rotational electric connector by a pin;

5) two rotational electric connectors, wherein each has one rotating female bolt for (+) circuit and one metal pin for (-) electric circuit and both are rotationally connected to a respective cap of the jump rope handles; and

6) an electrically blinking circuit comprised of three electric wires, a blinking connector, two sets of leads of which have a parallel connection to a diode and plurality of LEDs.

6. (New) The electrically lighted jump rope as defined in claim 5, wherein the three electric wires of the electrically blinking circuit comprises:

1) one end of the first electric wire is connected to a (-) diode terminal, on which an on/off switch is installed;

2) one end of the second electric wire is connected to a (+) diode terminal, on which a blinking connector is aligned for providing a series of connections to the leads;

3) pluralities of LEDs connecting the two electric wires; and

4) one end of the third electric wire is connected to a (+) terminal that is located behind the on/off switch, the other end of the third electric wire is connected to a (-) terminal of the other diode on which two blinking connectors are aligned in a series.

7. (New) The electrically lighted jump rope as defined in claim 6 wherein the blinking connector is comprised of a vacuum glass ball and a liquid metal ball moving around the two sets of the filament leads, the two sets of filament leads are located on opposite sides of the vacuum glass bulb and are connected in parallel between a (+) terminal and a (+) electric wire one a diode providing a blinking electric circuit while the electric on/off switch on the other diode is turned on.

8. (New) The electrically lighted jump rope as defined in claim 6 wherein the blinking connector is comprised of a vacuum glass ball and a metal ball moving around the two sets of the filament leads, the two sets of filament leads are located on opposite sides of the vacuum glass bulb and are connected in parallel between a (+) terminal and a (+) electric wire one a diode providing a blinking electric circuit while the electric on/off switch on the other diode is turned on.—

3. The following changes to the drawings have been approved by the examiner and agreed upon by applicant: the reference character “(39)” identifying the glass ball, as referred to on page 6, line 24, is to be inserted into an appropriate drawing figure. In order to avoid abandonment of the application, applicant must make these above agreed upon drawing changes.

4. The following is an examiner’s statement of reasons for allowance: the prior art of record does not disclose an electrically blinking jump rope as claimed wherein the electrically blinking circuit comprises two sets of leads of which have a parallel connection to a diode. *Fradin* (FR 2276069 A) discloses a blinking jump rope wherein the blinking circuit is shown in Fig. 3. The blinking circuit does not comprise two sets of leads of which have a parallel connection to a diode. *Hong* (KR 2004017059 A) discloses a jump rope having a plurality of LED lamps and rotational electric connectors similar to the instant invention, but does not teach or disclose a blinking circuit. *Ignatovich* (US Pat. 6,641,508 B1) discloses a jump rope having blinking lights, but does not detail how it would be accomplished. *Pak* (US Pat. Pub. 2005/0255972 A1) discloses a blinking circuit as claimed, but the publication does not satisfy the requirements of prior art since the filing date is after the instant application’s filing date and the inventor appears to be as the inventor of the instant invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled “Comments on Statement of Reasons for Allowance.”

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Victor K. Hwang whose telephone number is (571) 272-4976. The examiner can normally be reached Monday through Friday from 7:30 AM to 4:00 PM Eastern time.

The facsimile number for submitting papers directly to the examiner for informal correspondence is (571) 273-4976. The facsimile number for submitting all formal correspondence is (571) 273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory L. Huson can be reached on (571) 272-4887.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Victor K. Hwang
December 10, 2005



Primary